

Contents Volume 131

Letter

- Preparation of silica–alumina catalyst by the sol–gel method and its activity for the Diels–Alder reaction of isoprene and acrylaldehyde [A3186]
Y. Matsumoto, K. Mita, K. Hashimoto and T. Tokoroyama (Osaka, Japan) L1

Articles

- Aromatization of ethane over Pt,Ga/HZSM-5 catalyst and the effect of intermetallic hydrogen acceptor on the reaction [A3143]
O.V. Chetina, T.V. Vasina and V. V Lunin (Moscow, Russia) 7
- Cerium impregnated H-mordenite as a catalyst for shape-selective isopropylation of naphthalene. Selective deactivation of acid sites on the external surface [A3118]
J.-H. Kim (Tottori, Japan), Y. Sugi, T. Matsuzaki, T. Hanaoka, Y. Kubota (Ibaraki, Japan), . XTU, M. Matsumoto (Osaka, Japan), S. Nakata (Yokohama, Japan), A. Kato (Ibaraki, Japan), G. Seo (Kwangju, Korea) and C. Pak (Taejon, Korea) 15
- Direct synthesis of phenol by hydroxylation of benzene with oxygen and hydrogen [A3151]
T. Miyake, M. Hamada, Y. Sasaki and M. Oguri (Yokkaichi-shi, Mie, Japan) 33
- Importance of a quasistable V_4O_9 to synthesize a highly crystalline $VOHPO_4 \cdot 0.5H_2O$ [A3152]
T. Miyake and T. Doi (Yokkaichi-shi, Mie, Japan) 43
- Catalytic decomposition and oxidation of CH_3Cl on Cr_2O_3 -doped SnO_2 [A3142]
F. Solymosi, J. Raskó, E. Papp, A. Oszkó and T. Bánsági (Szeged, Hungary) 55
- Effect of heat-treatment conditions on Cu–Cr/ γ -alumina catalyst for carbon monoxide and propene oxidation [A3153]
C.-C. Chien, W.-P. Chuang and T. Huang (Hsinchu, Taiwan, ROC) 73
- Characterization of Pd–CeO₂ interaction on alumina support and hydrogenation of 1,3-butadiene [A3154]
R.d.S. Monteiro, F.B. Noronha, L.C. Dieguez and M. Schmal (Rio de Janeiro, Brazil) 89
- Applications of binderless zeolite-coated monolithic reactors [A3140]
J.E. Antia and R. Govind (Cincinnati, OH, USA) 107
- Effects of high-level additions of ZSM-5 to a fluid catalytic cracking (FCC) RE-USY catalyst [A3141]
Y.G. Adewuyi, D.J. Klocke (Paulsboro, NJ, USA) and J.S. Buchanan (Princeton, NJ, USA) 121
- Synergistic effect of iron and copper oxides supported on silica in the room temperature oxidation of cyclohexane [A3149]
U. Schuchardt, R. Pereira, C.E.Z. Krähebühl, M. Rufo and R. Buffon (Campinas, SP, Brazil) 135
- Effect of experimental parameters on the relative reactivity of dibenzothiophene and 4-methyldibenzothiophene [A3135]
V. Lamure-Meille, E. Schulz, M. Lemaire and M. Vrinat (Villeurbanne, France) 143
- Diels–Alder reactions of α -amino acid precursors by heterogeneous catalysis: Thermal vs. microwave activation [A3148]

C. Cativiela, J.I. García, J.A. Mayoral, E. Pires, A.J. Royo (Zaragoza, Spain) and F. Figueras (Villeurbanne, France)	159
Highly efficient telomerization of butadiene into octadienol in a micellar system: a judicious choice of the phosphine/surfactant combination [A3137]	
E. Monflier (Lens, France), P. Bourdauducq, J.-L. Couturier, J. Kervennal (Pierre Bénite, France) and A. Mortreux (Villeneuve d'Ascq, France)	167

Calendar of Forthcoming Events	179
--------------------------------------	-----

Book Review	186
-------------------	-----

News Brief

Alkyne Cyclotrimerization	N2
Manfred Baerns Moves to Berlin	N3
Structure Sensitivity and Insensitivity in Catalysis	N4
Roumanian Literature	N5
News from Poland	N6
Rhône-Poulenc Transfers its Heat-Cured Elastomers Business in North America and Japan to Wacker	N6
Japan-China-U.S.A. Symposium on Catalysis	N6

Articles

Preparation and characterization of alumina supported trimanganese tetroxide catalysts [A3161] W. Wang, Y. Yang and J. Zhang (Beijing, China)	189
Synthesis of C ₂₊ -oxygenated compounds directly from syngas [A3159] P.-Z. Lin, D.-B. Liang, H.-Y. Luo, C.-H. Xu, H.-W. Zhou, S.-Y. Huang and L.-W. Lin (Dalian, China)	207
Effect of SiO ₂ /Al ₂ O ₃ ratio on the catalytic properties of mordenite for alkylation of biphenyl with propene [A3157] T. Matsuda, T. Urata, U. Saito and E. Kikuchi (Tokyo, Japan)	215
Removal of unsaturated contaminants from an industrial C ₄ -stream using Cu/SiO ₂ catalysts: Subsequent testing of the purified stream with an alkyne sensitive catalyst system [A3162] I. Setiawan and K.J. Cavell (Hobart, Tas., Australia)	225
Promoter effects of dichloromethane on the oxidative coupling of methane over MnMgO catalysts [A3155] R. Mariscal, M.A. Peña and J.L.G. Fierro (Madrid, Spain)	243
Partial oxidation of methane to formaldehyde by lithium promoted VPO catalysts [A3150] M. López Granados and E.E. Wolf (Notre Dame, IN, USA)	263
Activity and structure-sensitivity of the water-gas shift reaction over Cu-Zn-Al mixed oxide catalysts [A3163] M.J.L. Ginés (Santa Fe, Argentina), N. Amadeo, M. Laborde (Buenos Aires, Argentina) and C.R. Apesteguía (Santa Fe, Argentina)	283
The effects of support and of particle size on the redox properties of rhodium [A3147] D. Martin and D. Duprez (Poitiers, France)	297
Catalytic activity and selectivity of perovskites La _{1-x} Sr _x V _{1-x} V ³⁺ _x O ₃ for the transformation of	

isopropanol [A3138] P.N. Trikalitis and P.J. Pomonis (Ioannina, Greece)	309
Effect of sodium oxide on the morphology and basicity of alumina [A3166] V.A. Ivanov, A. Piéplu, J.C. Lavalley (Caen, France) and P. Nortier (Aubervilliers, France)	323
Synthesis of light alkenes from syngas on silicalite-1 supported cobalt and cobalt–manganese catalysts [A3158] D. Das, G. Ravichandran and D.K. Chakrabarty (Bombay, India)	335
Kinetics of ethane aromatization over a gallium-doped H-ZSM-5 catalyst [A3165] O.P. Keipert, D. Wolf, P. Schulz and M. Baerns (Bochum, Germany)	347
Performance of γ -alumina-supported Wacker catalysts in the oxidation of 1-butene [A3181] A.W. Stobbe-Kreemers, M. Soede, M. Makkee and J.J.F. Scholten (Delft, The Netherlands)	367
Author Index	383
Subject Index	385
Contents Volume 131	391

News Brief

Alkyne Cyclotrimerization	N10
Reactions at Supercritical Conditions: Has the Time Arrived?	N11
Relevant Catalysis?	N12
Russian Literature	N13
Rentech, Inc. and Fischer–Tropsch Process	N13
Innovation — and what Drives Acceptance?	N14